

107.1 - Primary Gas Mixtures

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SRM	Description	Unit of Issue	Certified Component	Nominal Amount-of-substance fraction
1658a	Methane in Air (Nominal 1 $\mu\text{mol/mol}$)	cylinder	1 $\mu\text{mol/mol}$	CH ₄
1659a	Methane in Air (Nominal 10 $\mu\text{mol/mol}$)	cylinder	CH ₄	10 $\mu\text{mol/mol}$
1660a	Methane and Propane in Air (Nominal: Methane 4 $\mu\text{mol/mol}$; Propane 1 $\mu\text{mol/mol}$)	cylinder	CH ₄ :C ₃ H ₈	4:1 $\mu\text{mol/mol}$
1661a*	Sulfur Dioxide in Nitrogen (Nominal 500 $\mu\text{mol/mol}$)	cylinder	SO ₂	500 $\mu\text{mol/mol}$
1662a*	Sulfur Dioxide in Nitrogen (Nominal 1000 $\mu\text{mol/mol}$)	cylinder	SO ₂	1000 $\mu\text{mol/mol}$
1663a*	Sulfur Dioxide in Nitrogen (Nominal 1500 $\mu\text{mol/mol}$)	cylinder	SO ₂	1500 $\mu\text{mol/mol}$
1664a*	Sulfur Dioxide in Nitrogen (Nominal 2500 $\mu\text{mol/mol}$)	cylinder	SO ₂	2500 $\mu\text{mol/mol}$
1665b	Propane in Air (Nominal 3 $\mu\text{mol/mol}$)	cylinder	C ₃ H ₈	3 $\mu\text{mol/mol}$
1666b	Propane in Air (Nominal 10 $\mu\text{mol/mol}$)	cylinder	C ₃ H ₈	10 $\mu\text{mol/mol}$
1667b	Propane in Air (Nominal 50 $\mu\text{mol/mol}$)	cylinder	C ₃ H ₈	50 $\mu\text{mol/mol}$
1668b*	Propane in Air (Nominal 100 $\mu\text{mol/mol}$)	cylinder	C ₃ H ₈	100 $\mu\text{mol/mol}$
1669b	Propane in Air (Nominal 500 $\mu\text{mol/mol}$)	cylinder	C ₃ H ₈	500 $\mu\text{mol/mol}$
1674b*	Carbon Dioxide in Nitrogen (Nominal 7 % mol/mol)	cylinder	CO ₂	7 % mol/mol
1676	Carbon Dioxide in Air (Nominal 365 $\mu\text{mol/mol}$)	cylinder	CO ₂	365 $\mu\text{mol/mol}$
1677c*	Carbon Monoxide in Nitrogen (Nominal 10 $\mu\text{mol/mol}$)	cylinder	CO	10 $\mu\text{mol/mol}$
1678c*	Carbon Monoxide in Nitrogen (Nominal 50 $\mu\text{mol/mol}$)	cylinder	CO	50 $\mu\text{mol/mol}$
1679c*	Carbon Monoxide in Nitrogen (Nominal 100 $\mu\text{mol/mol}$)	cylinder	CO	100 $\mu\text{mol/mol}$
1680b*	Carbon Monoxide in Nitrogen (Nominal 500 $\mu\text{mol/mol}$)	cylinder	CO	500 $\mu\text{mol/mol}$
1681b*	Carbon Monoxide in Nitrogen (Nominal 1000 $\mu\text{mol/mol}$)	cylinder	CO	1000 $\mu\text{mol/mol}$
1683b*	Nitric Oxide in Nitrogen (Nominal 50 $\mu\text{mol/mol}$)	cylinder	NO	50 $\mu\text{mol/mol}$

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SRM	Description	Unit of Issue	Certified Component	Nominal Amount-of-substance fraction
1684b*	Nitric Oxide in Nitrogen (Nominal 100 µmol/mol)	cylinder	NO	100 µmol/mol
1685b*	Nitric Oxide in Nitrogen (Nominal 250 µmol/mol)	cylinder	NO	250 µmol/mol
1686b*	Nitric Oxide in Nitrogen (Nominal 500 µmol/mol)	cylinder	NO	500 µmol/mol
1687b*	Nitric Oxide in Nitrogen (Nominal 1000 µmol/mol)	cylinder	NO	1000 µmol/mol
1689	Sulfur Dioxide in Nitrogen	cylinder	SO ₂	5 µmol/mol
1693a*	Sulfur in Nitrogen (Nominal 50 µmol/mol)	cylinder	SO ₂	50 µmol/mol
1694a*	Sulfur Dioxide in Nitrogen (Nominal 100 µmol/mol)	cylinder	SO ₂	100 µmol/mol
1696a*	Sulfur Dioxide in Nitrogen (Nominal 3500 µmol/mol)	cylinder	SO ₂	3500 µmol/mol
1800b	Eighteen Non-Methane Hydrocarbon Compounds in Nitrogen (Nominal 5 nmol/mol)	6 L Water Volume Cyl	(Eighteen components in small cylinder)	5 nmol/mol
1804c	Toxic Volatile Organic Compounds in Nitrogen (Nominal 5.0 nmol/mol)	cylinder	(Thirty components)	5 nmol/mol
2612a	Carbon Monoxide in Air (Nominal 10 µmol/mol)	cylinder	CO	10 µmol/mol
2613a	Carbon Monoxide in Air (Nominal 20 µmol/mol)	cylinder	CO	20 µmol/mol
2614a	Carbon Monoxide in Air (Nominal 42 µmol/mol)	cylinder	CO	42 µmol/mol
2617	Carbon Dioxide in Nitrogen (Nominal 500 µmol/mol)	cylinder	CO ₂	500 µmol/mol
2619a	Carbon Dioxide in Nitrogen (Nominal 0.5 % mol/mol)	cylinder	CO ₂	0.5 % mol/mol
2620a	Carbon Dioxide in Nitrogen (Nominal 1.0 % mol/mol)	cylinder	CO ₂	1.0 % mol/mol
2621a	Carbon Dioxide in Nitrogen (Nominal 1.5 % mol/mol)	cylinder	CO ₂	1.5 % mol/mol
2622a	Carbon Dioxide in Nitrogen (Nominal 2.0 % mol/mol)	cylinder	CO ₂	2.0 % mol/mol
2623a	Carbon Dioxide in Nitrogen (Nominal 2.5 % mol/mol)	cylinder	CO ₂	2.5 % mol/mol
2624a	Carbon Dioxide in Nitrogen (Nominal 3.0 % mol/mol)	cylinder	CO ₂	3.0 % mol/mol

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2625a*	Carbon Dioxide in Nitrogen (Nominal 3.5 % mol/mol)	cylinder	CO ₂	3.5 % mol/mol
2627a	Nitric Oxide in Nitrogen (Nominal 5 µmol/mol)	cylinder	NO	5 µmol/mol
2628a	Nitric Oxide in Nitrogen (Nominal 10 µmol/mol)	cylinder	NO	10 µmol/mol
2629a*	Nitric Oxide in Nitrogen (Nominal 20 µmol/mol)	each	NO	20 µmol/mol
2630*	Nitric Oxide in Nitrogen (Nominal 1500 µmol/mol)	each	NO	1500 µmol/mol
2631a*	Nitric Oxide in Nitrogen (Nominal 3000 µmol/mol)	cylinder	NO	3000 µmol/mol
2635a*	Carbon Monoxide in Nitrogen (Nominal 25 µmol/mol)	cylinder	CO	
2636a*	Carbon Monoxide in Nitrogen (Nominal 250 µmol/mol)	cylinder	CO	250 µmol/mol
2637a*	Carbon Monoxide in Nitrogen (Nominal 2500 µmol/mol)	cylinder	CO	2500 µmol/mol
2638a*	Carbon Monoxide in Nitrogen (Nominal 5000 µmol/mol)	cylinder	CO	5000 µmol/mol
2639a	Carbon Monoxide in Nitrogen (Nominal 1 % mol/mol)	cylinder	CO	1 % mol/mol
2640a	Carbon Monoxide in Nitrogen (Nominal 2 % mol/mol)	cylinder	CO	2 % mol/mol
2641a	Carbon Monoxide in Nitrogen (Nominal 4 % mol/mol)	cylinder	CO	4 % mol/mol
2642a*	Carbon Monoxide in Nitrogen (Nominal 8 % mol/mol)	cylinder	CO	8 % mol/mol
2644a	Propane in Nitrogen (Nominal 250 µmol/mol)	cylinder	C ₃ H ₈	250 µmol/mol
2646a	Propane in Nitrogen (Nominal 1000 µmol/mol)	cylinder	C ₃ H ₈	1000 µmol/mol
2647a	Propane in Nitrogen (Nominal 2500 µmol/mol)	cylinder	C ₃ H ₈	2500 µmol/mol
2657a*	Oxygen in Nitrogen (Nominal 2 % mol/mol)	cylinder	O ₂	2 % mol/mol
2658a*	Oxygen in Nitrogen (Nominal 10 % mol/mol)	cylinder	O ₂	10 % mol/mol
2659a*	Oxygen in Nitrogen (Nominal 21 % mol/mol)	cylinder	O ₂	21 % mol/mol

SRM	Description	Unit of Issue	Certified Component	Nominal Amount-of-substance fraction
2660a*	Total Oxides of Nitrogen (NO _x) in Air (Nominal 100 µmol/mol)	cylinder	NO _x	100 µmol/mol
2730	Hydrogen Sulfide in Nitrogen (Nominal 5 µmol/mol)	cylinder	H ₂ S	5 µmol/mol

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2731	Hydrogen Sulfide in Nitrogen (Nominal 20 µmol/mol)	cylinder	H ₂ S	20 µmol/mol
2735	Nitric Oxide in Nitrogen (Nominal 800 µmol/mol)	cylinder	NO	800 µmol/mol
2737	Nitric Oxide in Nitrogen (500 nmol/mol)	cylinder	NO	500 µmol/mol
2738	Nitric Oxide in Nitrogen (Nominal 1000 nmol/mol)	cylinder	NO	1000 µmol/mol
2740a	Carbon Monoxide in Nitrogen (Nominal 10 % mol/mol)	cylinder	CO	10 % mol/mol
2741a	Carbon Monoxide in Nitrogen (Nominal 13 % mol/mol)	cylinder	CO	13 % mol/mol
2745*	Carbon Dioxide in Nitrogen (Nominal 16 % mol/mol)	cylinder	CO ₂	16 % mol/mol
2750	Methane in Air (Nominal 50 µmol/mol)	cylinder	CH ₄	50 µmol/mol
2751	Methane in Air (Nominal 100 µmol/mol)	cylinder	CH ₄	100 µmol/mol
2764	Propane in Air (Nominal 0.25 µmol/mol)	cylinder	C ₃ H ₈	0.25 µmol/mol
2765	Propane in Air (Nominal 100 nmol/mol)	cylinder	C ₃ H ₈	100 nmol/mol

* Those SRMs that are marked "*" are available as [NTRMs](#) from commercial suppliers.

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